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ATTACHMENT V

COLLOCATION

Section 1. Introduction

This Attachment sets forth the requirements for Collocation. Bell Atlantic shall provide MCIm Collocation in accordance with the terms of ~~its FCC and Virginia Collocation Tariffs and the provisions of this Attachment V. Any conflicts between the Tariff and the provisions hereof shall be resolved as set forth in Section 1, Part A of this Agreement.~~ this Agreement, specifically Attachment V. As set forth below, Bell Atlantic must provide physical collocation if space is or can be made available. If space is exhausted, collocation may be virtual. Whether or not space is exhausted, MCIm may collocate by adjacent collocation, shared/common cage collocation, uncaged collocation, or any other Technically Feasible method of collocation. MCIm is not required to collocate in order to interconnect or have access to Network Elements.

Section 2. ~~Technical~~General Requirements

2.1 Types of Equipment

2.1.1 MCIm may collocate the amount and type of equipment it deems necessary to interconnect or gain access to Network Elements (including, but not limited to) (i) transmission equipment, including, but not limited to, optical terminating equipment and multiplexers; (ii) equipment being collocated to terminate basic transmission facilities pursuant to sections 66.1401 and 64.1402 of the FCC regulations as of August 1, 1996; and (iii) DSLAMs, routers, ATM multiplexers and remote switching modules, even if such multi-functional equipment is capable of switching and routing traffic or includes enhanced services functionalities, unless Bell Atlantic first proves to the Commission that MCIm's equipment will not be used by MCIm to interconnect or access Network Elements. Bell Atlantic may not limit MCIm's ability to use all the features, functions, and capabilities of collocated equipment, including switching, and routing, features and functions and enhanced services functionalities. MCIm may use any vendors it selects to install equipment, subject only to Bell Atlantic's reasonable security measures.

2.1.2 If Bell Atlantic denies collocation, citing safety standards, Bell Atlantic must provide to MCIm within five days after such denial a list of all equipment that Bell Atlantic locates within the premises, together with an affidavit attesting that all of that equipment meets or exceeds the safety standard that Bell Atlantic contends MCIm's equipment fails to meet.

2.2 Connections Between Carriers. Subject only to meeting the Level 1 safety requirements of the Bellcore Network Equipment and Building Specifications (NEBS) (or more stringent safety requirements only if Bell Atlantic imposes those on its own equipment), MCI may interconnect its network with that of any other collocating telecommunications carrier at the Bell Atlantic premises and connect its collocated equipment to the collocated equipment of another telecommunications carrier within the same premises. MCI may construct such connection itself with copper, coaxial cable, wireless, or optical facilities, or any other Technically Feasible method, using the shortest available distance between its equipment and that of other carriers. MCI need not purchase any equipment or cross-connect capabilities from Bell Atlantic, however, Bell Atlantic shall provide the connection between the equipment of MCI and other collocated telecommunications carriers, if requested by MCI.

2.3 Technical Feasibility. Bell Atlantic shall provide any method of collocation arrangement which has been deployed by any other incumbent LEC, or an equally cost-effective arrangement, unless Bell Atlantic is able, in a Commission proceeding, to rebut the presumption that such arrangement is Technically Feasible.

2.4 Security

2.4.1 Bell Atlantic agrees to allow MCI's employees and designated agents unrestricted access to MCI ~~dedicated space~~ collocated equipment in Bell Atlantic offices twenty-four (24) hours per day each day of the week, without requiring either a security escort of any kind or delaying MCI employees entry into Bell Atlantic's premises. Bell Atlantic may place reasonable security measures to protect its networks and equipment; provided, however, that such measures may not be more stringent than the security arrangements Bell Atlantic maintains for its own employees and authorized contractors. Bell Atlantic may not unreasonably restrict MCI from MCI's equipment.

2.4.2 Bell Atlantic may, at its cost, require MCI employees to undergo the same level of security training as that applied to Bell Atlantic's own employees and authorized contractors, but Bell Atlantic must provide information to MCI on the specific type of training required so that MCI may, at its option, train its own employees.

~~restrictions on access by~~ **2.4.3 Bell Atlantic will use its best efforts to prevent harm or damage to MCI's property and MCI's employees and designated agents to the MCI Collocated space in Bell Atlantic offices, in accordance with Attachment IX, contractors while they are on Bell Atlantic's premises. Bell Atlantic will restrict access to MCI equipment by Bell Atlantic employees and contractors and third parties to the extent necessary to perform their job functions, and will provide MCI with a list of those whom it authorizes to enter MCI space, along with current facsimiles of the identifying credentials to be carried by such persons. Upon request, and at no charge to MCI, Bell Atlantic will provide**

MCIm with a current log documenting all ingress to, and egress from, MCIm space by Bell Atlantic employees, contractors, and third parties. Bell Atlantic will partition access device systems upon request by MCIm.

2.4.4 While in MCIm space, Bell Atlantic will comply at all times with MCIm security and safety procedures and requirements.

2.4.5 Bell Atlantic will ensure that the area which houses MCIm equipment is adequately secured and monitored to prevent unauthorized entry. At MCIm's request, Bell Atlantic will replace exposed hinges on doors with security studs. At MCIm's request, Bell Atlantic will control unauthorized access from elevators by continuous surveillance or by installing security partitions, security grills, locked gates or doors between elevator lobbies and spaces which house MCIm equipment. Bell Atlantic will immediately notify MCIm of any actual or attempted security breaches.

2.4.6 Where collocation is cageless, these additional requirements apply at MCIm's request:

2.4.6.1 Bell Atlantic will provide locking cabinets to enclose equipment, operating racks, equipment spare parts, power feeds, and cable conduits, and will limit access by Bell Atlantic employees to emergencies only. MCIm may change locks for the protection and security of such spaces.

2.4.6.2 If the area where cageless collocation is located does not have an access card security system, Bell Atlantic will install such a system at its own cost. The access card system must have a database which tracks and reports entrance and exit. Access must be verified or bonded.

2.4.6.3 Bell Atlantic will continuously monitor the area using security cameras. If such surveillance is recorded on videotape, Bell Atlantic will provide access to these videotapes upon MCIm's request.

2.4.6.4 Bell Atlantic will properly label the equipment, using bar codes or comparable labeling.

2.4.7 Bell Atlantic will not use for marketing or any other purpose related to competing with other carriers any information collected in the course of implementing or operating collocation or security arrangements.

2.5 Environmental

2.5.1. Within three business days after MCIm's request for any space, Bell Atlantic will provide any information in its possession or available to it regarding the environmental conditions of the space provided for placement of equipment

and interconnection, including, but not limited to, the existence and condition of asbestos, lead paint, hazardous substance contamination, or radon. Information is considered "available" under this Agreement if it is in Bell Atlantic's possession, or the possession of a current or former agent, contractor, employee, lessor, or tenant of Bell Atlantic's.

2.5.2 Bell Atlantic will allow MCIm to perform any environmental site investigations, including, but not limited to, asbestos surveys, which MCIm deems to be necessary in support of its collocation needs.

2.5.3 If the space contains environmental contamination or hazardous material, particularly, but not limited to, asbestos, lead paint or radon, Bell Atlantic shall offer an alternative space for MCIm's consideration.

2.5.4 Prior to placement of equipment, MCIm will provide Bell Atlantic with a list of hazardous materials that are contained in MCIm's equipment.

~~2.2.6~~ **Intraoffice Capacity.** Where Technically Feasible, Bell Atlantic shall provide intraoffice facilities (e.g., including, but not limited to, DS1, DS3, DS0, OC3, OC12, OC48, and STS-1, terminations where and when available) as requested by MCIm to meet MCIm's needs for placement and interconnection of equipment, where Technically Feasible.

~~2.5~~ Bell Atlantic shall permit MCIm to **2.7 Subcontracting of Construction.** MCIm may subcontract the construction of physical Collocation arrangements within the MCIm Collocation space, to Bell Atlantic's construction specifications, with contractors approved by Bell Atlantic, provided, however, that Bell Atlantic shall not unreasonably withhold approval of contractors. Approval by Bell Atlantic shall be based on the same criteria it uses in approving contractors for its own similar purposes.

2.8 Provision of Telephone Jacks. MCIm may order from Bell Atlantic basic business telephone service with a connection jack at the Collocation space, as may be required for administrative purposes. Such service will be available on the day that the space is turned over to MCIm.

2.9 Bell Atlantic shall provide lighting, ventilation, power, heat, air conditioning, and other environmental conditions for MCIm's space and equipment in substantial conformance with Bell Communication Research ("Bellcore") Network Equipment-Building System ("NEBS") standards TR-TR-EOP-000063. MCIm may order additional lighting and AC power in accordance with Bell Atlantic's Collocation Tariffs.

~~2.8~~ **2.10 Access to Basic Facilities.** Bell Atlantic shall provide MCIm's personnel and designated agents with unrestricted access to bathrooms, view wash stations, shower

~~stations, bathrooms, and drinking water within the collocated facility on a twenty-four (24) hours per day, seven (7) days per week basis for authorized MCIm personnel and agents in facilities where such amenities are located in Collocation common areas. Where such amenities are not available within a Collocation common area and where Bell Atlantic has employees available on the premise week. Bell Atlantic shall provide an escort for access to such facilities also provide reasonable access to parking.~~

2.11 Bell Atlantic shall provide all ingress and egress of fiber and power cabling to MCIm Collocated Spaces in compliance with MCIm's reasonable cable diversity requirements. The specific level of diversity requested for each site or Network Element will be provided in the Collocation request. MCIm shall pay Bell Atlantic any reasonable special construction charges incurred in providing MCIm the requested level of diversity where ~~said~~ such diversity is not available.

~~2.11~~ **2.12 Confidential Information.** Bell Atlantic shall safeguard MCIm's proprietary Customer and other Confidential Information (including all information provided in Collocation requests) in accordance with the provisions of Part A of this Agreement.

2.13 Compliance with Performance Standards. Bell Atlantic shall comply with performance standards set forth in Attachment X. Bell Atlantic shall compensate MCIm in accordance with Attachment X for any delays in the negotiated completion and turnover dates.

~~notify MCIm's National Network Management Center at least five (5) business days prior to these instances when Bell Atlantic~~ **2.14 Notice of Work in or near Space.** Bell Atlantic shall provide MCIm with written notice five business days before it or its subcontractors know they will be performing work reasonably anticipated to affect MCIm's service on the perform work in the general area of the collocated space occupied by MCIm, or in the general area of the AC and DC power plants which support MCIm equipment. Bell Atlantic ~~will~~ shall inform MCIm by telephone of any emergency-related activity reasonably anticipated to affect MCIm's service that Bell Atlantic or its subcontractors may be performing ~~even~~ in the general area of the collocated space occupied by MCIm, or in the general area of the AC and DC power plants which support MCIm equipment. Notification of any emergency activity will be made ~~related activity shall be as soon as practicable prior to the start of the activity~~ so that MCIm can take any action ~~required~~ needed to monitor or protect its service.

2.15 Construction of Space. Bell Atlantic shall construct the collocated space in compliance with MCIm's collocation request. Bell Atlantic shall not deviate from MCIm's request without prior written approval.

2.16 Acceptance Walkthrough. MCIIm and Bell Atlantic will complete an acceptance walk through of the Collocated space ~~constructed by~~ requested from Bell Atlantic. Exceptions from drawings and plans approved under Section 2.12 that would materially affect MCIIm's intended use of the space that are noted by MCIIm during this acceptance walk through shall be corrected, or the price otherwise adjusted, by Bell Atlantic within five (5) business days after the walk through unless otherwise agreed. The correction of these exceptions from the original Collocation ~~application request~~ shall be at Bell Atlantic's expense. Bell Atlantic will not be deemed to have completed work on a collocation arrangement until the collocation is suitable for use by MCIIm and the cable assignment information necessary to use the facility has been provided to MCIIm.

2.17 MCIIm shall submit a request ~~to collocate equipment using the form for collocation space using the forms substantially similar to those attached as Exhibits A and B to this Attachment V. Promptly following MCIIm's submission of a Collocation application, Bell Atlantic shall review the application, and within ten (10) business days, conduct a meeting with MCIIm to review the details of the application to assure that it is complete.~~

~~2.17.1 Within forty five (45) days after the application review meeting.~~ **2.17.1 Bell Atlantic shall tender to MCIIm drawings of the proposed Collocation space. MCIIm shall review the drawings and either approve them or specify changes to the space design within thirty (30) days after receiving them. Promptly thereafter, Bell Atlantic and MCIIm shall agree on final drawings, specifications and charges for the requested space specified on MCIIm's application. Upon MCIIm's request, Bell Atlantic shall construct the Collocation space in substantial compliance with MCIIm's Collocation ~~application request~~.**

2.18 Bell Atlantic shall provide drawings depicting available paths, with dimensions, for MCIIm outside plant fiber ingress and egress into MCIIm collocated space ~~at the initial site implementation meeting between MCIIm and Bell Atlantic within ten (10) business days after Bell Atlantic's acceptance of MCIIm's request for collocated space.~~ Such path and any areas around it in which MCIIm must work to perform installation shall be free of asbestos, lead paint (unless encapsulated), radon, and other health or safety hazards to the same extent that comparable Bell Atlantic work areas in the same premises are free of such conditions.

2.19 At MCIIm's request, Bell Atlantic shall provide detailed power cabling connectivity information, including the sizes and number of power feeders to MCIIm, within ten days after accepting MCIIm's request for collocated space.

2.20 Bell Atlantic shall provide telephone equipment drawings depicting the location, type, and cable termination requirements (i.e., connector type, number and type of pairs, and naming convention) for Bell Atlantic point of termination bay(s) to MCIIm upon completion of Bell Atlantic construction of the MCIIm Collocation space.

2.21 Milestones. Bell Atlantic shall provide positive confirmation to MCIIm when its construction of MCIIm's Collocation space is fifty percent (50%) completed. This confirmation shall also include confirmation of the scheduled completion and turnover dates.

2.22 Provision of Information. Bell Atlantic shall ~~make commercially reasonable efforts to~~ provide the following information to MCIIm within ~~ten (10)~~ five business days after receipt of a written request from MCIIm ~~MCIIm~~, unless otherwise agreed:

2.22.1 Work restriction guidelines.

2.22.2 Bell Atlantic or industry technical publication guidelines that impact the design of ~~virtually~~ collocated equipment.

2.22.3 Bell Atlantic contacts (names and telephone numbers) for the following areas:

Engineering
Physical & Logical Security
Provisioning
Billing
Operations
Site and Building Managers
Environmental and Safety

~~2.22.4 Escalation~~ **2.22.4** As set forth in Section [1] of Attachment VIII, escalation process for Bell Atlantic employees (names, telephone numbers and the escalation order) for any disputes or problems that might arise in connection with MCIIm's Collocation activities.

2.22.5 Upon MCIIm's request, Bell Atlantic will provide prices and specifications for unique battery and power requirements, including those for other types of equipment that can be collocated under this Agreement;

~~2. "Power" as referenced in this Section 2.19~~ **2.23 Power.** "Power" as used in this Attachment V refers to any electrical power source supplied by Bell Atlantic for MCIIm Collocation equipment. It includes ~~necessary~~ all superstructure, infrastructure, and overhead facilities, including, but not limited to, cable, cable racks and bus bars. Bell Atlantic ~~will~~ shall supply power on a load amp basis to support collocated MCIIm equipment at equipment-specific and industry standard DC and AC voltages. At a minimum, Bell Atlantic shall supply power to MCIIm at Parity with that provided by Bell Atlantic to itself or to any third party at the premises. ~~premises. If Bell Atlantic~~

performance, availability, or restoration falls below industry standards, Bell Atlantic will bring itself into compliance with such industry standards as soon as possible.

~~2.2.23.1 Bell Atlantic shall provide power as reasonably requested by MCIIm to meet MCIIm's need for the interconnection and placement of equipment in accordance with Tariff.~~

~~2.2.23.2 Central Office power supplied by Bell Atlantic into the MCIIm equipment area shall be supplied in the form of power feeders (cables) on cable racking into the designated MCIIm equipment area. The power feeders (cables) shall must support the requested quantity and capacity of MCIIm equipment in accordance with the Collocation Tariff. The termination location shall be as reasonably requested by MCIIm.~~

~~2.2.3 Bell Atlantic power equipment supporting MCIIm's equipment shall:~~

~~2.19.3.1 Comply in material respects with applicable industry standards (e.g., Bellcore, and NFBS) for equipment installation, cabling practices, and physical equipment layout;~~

~~2.19.3.2 Have redundant power feeds with physical diversity and battery back-up for MCIIm equipment at Parity with that provided for similar Bell Atlantic equipment at the same premises. Power requirements for remote switching equipment, if any is collocated, and physical diversity for power feeds where such diversity is not already available, may require special construction.~~

~~Provide Central Office ground, connected to a ground electrode in compliance with applicable industry standards. Central Office ground for remote switching equipment, if any is collocated, may require special construction; and~~

~~2.2.5 Provide feeder capacity and quantity to support the equipment layout for MCIIm equipment in accordance with MCIIm's Collocation application. Feeder capacity for remote switching equipment, if any is collocated, may require special construction.~~

~~2.19.4 Bell Atlantic shall use commercially reasonable efforts to, within forty-five (45) days after MCIIm's application:~~

~~2.4.1 Provide documentation submitted to and received from contractors for any contractor bids for any work being done on behalf of MCIIm (except for any work that is covered by a Tariffed rate);~~

~~2. Provide MCIm access to its Collocation space upon completion of construction that will provide safe and secure access to the Collocation space.~~

~~Provide power plant alarms that adhere to Bell Communication Research (Bellcore) Network Equipment Building System (NEBS) standards TR EOP 000062.~~

~~2. Provide cabling that adheres in all material respects to Bell Communication Research ("Bellcore") Network Equipment Building System ("NEBS") standards TR EOP 000062; and~~

~~2. Provide Lock Out Tag Out and other electrical safety procedures and devices in conformance with agreed OSHA or industry guidelines.~~

~~2.21 Standard intervals for physical Collocation shall be one hundred twenty (120) days from the date an application is finalized and approved by the Parties. Virtual Collocation will have a standard interval of sixty (60) days from the foregoing date.~~

~~2.1 Bell Atlantic shall provide space, as reasonably requested by MCIm, to meet MCIm's needs for placement of equipment. MCIm may collocate only that equipment which is used for interconnection and access to Network Elements. Remote switching equipment, if any is collocated, may not be used for switching.~~

~~2.1.1 To the extent practicable and consistent with the needs of Bell Atlantic and other collocators, Bell Atlantic will use reasonable efforts to place MCIm's physically collocated interconnection space so as to permit MCIm to expand its collocated interconnection space to a contiguous area up to a maximum of four hundred (400) square feet.~~

~~Subject to availability, physically collocated interconnection will be provided on a first come, first served basis in a physically collocated office until available Collocation space and facilities are exhausted. In such instances where two (2) or more requests for space are received at the same time for a Central Office building with limited space, a lottery will be administered to determine the order of selection of applicants.~~

~~2.1.3 If the space remaining in the portion of the Central Office in which physical Collocation is provided (the "Collocation Space") is less than one hundred (100) square feet or otherwise configured so as to be unsuited to meet the requirements of another collocator that has requested such space, the existing collocator(s) shall have the option of applying for any portion(s) of the remaining space.~~

~~In the event that MCIIm withdraws its request for Collocation services prior to completion, Bell Atlantic will refund the pre-paid design and planning fee, less actual costs incurred by Bell Atlantic.~~

~~2.1.5 Upon receipt of MCIIm's first Collocation application form, Bell Atlantic will, upon request, make available to MCIIm at cost any applicable Bellcore or Bell Atlantic specific documentation as listed in Bell Atlantic's Tariff 1 C.C. No. 1, Section 19.2.5. MCIIm is responsible for obtaining all other applications listed in Appendix 1 to Part A.~~

~~2.1.6 At the time Bell Atlantic submits contractor bids to MCIIm, Bell Atlantic shall provide any information in its possession or control regarding the environmental condition of the space provided for these sites, where the information is reasonably available. Bell Atlantic shall also notify MCIIm at such time of the following conditions of which it is aware: the existence and condition of asbestos, lead paint, hazardous substance contamination, and the like.~~

~~2.1.7 Bell Atlantic shall allow MCIIm to perform reasonable environmental site investigations within the designated Collocation Space, including, but not limited to, asbestos surveys, which MCIIm deems to be necessary in support of its Collocation needs, upon completion of Bell Atlantic's required construction work for the MCIIm Collocation space.~~

~~2.1.8 If the space provided for the placement of equipment, interconnection, or provision of service contains environmental contamination or hazardous material, particularly but not limited to asbestos or lead paint which makes the placement of such equipment or interconnection hazardous, Bell Atlantic shall offer an alternative space, if available at the same Bell Atlantic premise, for MCIIm's consideration.~~

~~2.1 Where Technically Feasible, Bell Atlantic shall provide the connection between the equipment in the collocated spaces of two (2) or more Telecommunications Carriers permitting such Telecommunications Carriers to interconnect its network with that of another collocating Telecommunications Carrier at Bell Atlantic premises, provided that the collocated equipment is used for interconnection with Bell Atlantic or for access to Bell Atlantic's Network Elements.~~

~~2.10 In a Collocation arrangement hereunder, Bell Atlantic shall protect MCIIm's Proprietary Information to the extent required by Applicable Law.~~

~~Bell Atlantic shall provide power cabling connectivity information, including the sizes and number of power feeders, to MCIIm upon completion of Bell Atlantic construction of MCIIm Collocation space.~~

~~Bell Atlantic shall provide virtual Collocation where physical Collocation is not practical for technical reasons or because of space limitations. Bell Atlantic shall take collocation demand into account when renovating existing facilities and constructing or leasing new facilities.~~

~~2.22 MCIIm may collocate only that equipment which is used for interconnection and access to Network Elements. MCIIm may collocate the quantity and type of such equipment it reasonably deems necessary in its Collocation space, provided that the equipment meets Bellcore specifications. Approved vendors will, at a minimum, be vendors Bell Atlantic currently approves for their own use. Bell Atlantic will not unreasonably withhold approval of additional vendors whose equipment meets Bellcore specifications.~~

~~2.23 MCIIm may choose to lease unbundled transport from Bell Atlantic or a third carrier for the purpose of connection to MCIIm collocated equipment, rather than construct to such facilities, all in accordance with FCC Rules and Regulations.~~

~~2.24 Bell Atlantic will maintain MCIIm's virtually collocated equipment in Parity with how it maintains its own equipment. Such maintenance shall include the change out of electronic cards provided by MCIIm and per MCIIm's request.~~
2.23.3 Bell Atlantic power equipment supporting MCIIm's equipment must:

2.23.3.1 Comply in all material respects with applicable industry standards (e.g., Bellcore, NEBS and IEEE) or manufacturer's equipment power requirement specifications for equipment installation, cabling practices, and physical equipment layout;

2.23.3.2 Have redundant power feeds with physical diversity and battery back-up as required by the equipment manufacturer's specifications for MCIIm equipment, or, at minimum, at Parity with that provided for similar Bell Atlantic equipment.

2.23.3.3 Provide, upon MCIIm's request, the capability for Real Time access to performance monitoring and alarm data that impacts (or potentially may impact) MCIIm traffic;

2.23.3.4 Provide Central Office ground, connected to a ground electrode located within the MCIIm collocated space, at a level above the top of MCIIm equipment plus or minus two feet to the left or right of MCIIm's final request; and

2.23.3.5 Provide feeder capacity and quantity to support the equipment layout for MCIIm equipment in accordance with MCIIm's Collocation request.

2.23.4 Bell Atlantic shall, within ten days after MCIm's request:

2.23.4.1 Provide documentation submitted to and received from contractors for any contractor bids for any work being done on behalf of MCIm (including, but not limited to, power supplies, and cage construction):

2.23.4.2 Provide an installation sequence and access that will allow installation efforts in parallel without jeopardizing personnel safety or existing MCIm services:

2.23.4.3 Provide MCIm access to its Collocation space upon completion of construction that will provide safe and secure access to the Collocation space:

2.23.4.4 Provide power plant alarms that adhere to Bell Communication Research (Bellcore) Network Equipment-Building System (NEBS) standards TR-EOP-000063:

2.23.4.5 Provide cabling that adheres in all material respects to Bell Communication Research ("Bellcore") Network Equipment-Building System ("NEBS") standards TR-EOP-000063: and

2.23.4.6 Provide Lock Out-Tag Out and other electrical safety procedures and devices in conformance with the most stringent OSHA or industry guidelines.

2.23.5 Bell Atlantic shall provide MCIm with written notification no less than ten business days before any scheduled AC or DC power work or related activity in the collocated facility that will or might cause an outage or any type of power disruption to MCIm equipment located in Bell Atlantic's facility. Bell Atlantic will provide MCIm immediate notification by telephone of any emergency power activity that would impact MCIm equipment.

2.24 **Provisioning Intervals.** Provisioning intervals for physical, shared/common caged, and adjacent collocation will not exceed 90 days. Provisioning intervals for virtual and cageless collocation will not exceed 60 days. These intervals are further defined in Attachment X.

Section 3. Physical Collocation

3.1 General Requirements

3.1.1 If space is or can be made available, Bell Atlantic agrees to provide physical collocation space on its premises, as requested by MCIm, for MCIm's Interconnection and access to Network Elements. Bell Atlantic premises include all buildings or structures owned or leased by Bell Atlantic that house network facilities (including, but not limited to, central offices, serving wire centers, tandem offices, and Remote Terminals), whether on Bell Atlantic's property, leased property, or public Rights of Way. If available, Bell Atlantic shall offer MCIm space that has already been prepared and conditioned for collocation.

3.1.2 Within ten days of MCIm's request for space, Bell Atlantic will respond, (i) stating whether or not space is available, (ii) specifying the amount of space available, the number of collocators, and any modifications in the use of space since the last report provided to MCIm, and (iii) describing measures Bell Atlantic is taking to make additional space available for collocation. If the Commission allows Bell Atlantic to charge for such reports, Bell Atlantic will prepare such reports for MCIm only upon request.

3.1.3 Bell Atlantic will maintain a document available for viewing on the Internet that indicates all premises that are full. Bell Atlantic will update this document within ten days of any premise running out of physical collocation space.

3.1.4 Bell Atlantic will remove obsolete or unused equipment from its premises upon reasonable request by MCIm.

3.2 Denial of Space

3.2.1 If Bell Atlantic denies MCIm's request for physical collocation space, Bell Atlantic must in each event provide, within ten days after denial, in a complete and detailed manner, the following:

(i) floor plans or diagrams of the premises and description of the grounds and surrounding area;

(ii) analysis of the central office space as currently used, including square footage devoted to each use;

(iii) information about any possible reclamation, consolidation, planned expansion or other future use of that space, including the information and forecasts used in making the plans for future use, the nature of the intended use, the date the space was originally reserved, and the date Bell Atlantic intends to put the space to future use;

(iv) disclosure of all space that has been reserved by Bell Atlantic or that is being used for storage of unused or underutilized equipment;

(v) information regarding Bell Atlantic's internal policies for administration, maintenance, equipment, storage, recreation, and other non-essential uses of space in its central offices, so that MCIm can ascertain whether Bell Atlantic's procedures for determining whether space is available for collocators' equipment is similar to Bell Atlantic's procedures for determining whether space is available for its own equipment;

(vi) information on the amount and usage of space currently used and projected to be used by Bell Atlantic subsidiaries or Affiliates; and

(vii) plans for central office rearrangement and conversion of space used for administrative, maintenance, equipment, storage, recreation, and other non-essential uses; and

(viii) any other information Bell Atlantic used to determine that there was no space available.

3.2.2 If Bell Atlantic denies MCIm's request for physical collocation space, Bell Atlantic must provide a tour of the premises and surrounding grounds, without charge, within ten days after the denial.

3.2.3 If Bell Atlantic denies MCIm's physical collocation request and MCIm submits an adjacent, virtual, shared common cage, or cageless collocation request within five business days after receipt of the denial, the date of the original physical collocation request will be considered as the date the alternative collocation was requested. If Bell Atlantic later discovers or creates additional space at a premise where MCIm had accepted alternative collocation because physical collocation was denied, MCIm may, at its option, convert the alternative collocation to physical.

3.2.4 If space is denied but later becomes available, Bell Atlantic shall immediately provide written notice to MCIm.

3.2.5 If space is denied, Bell Atlantic shall provide without charge transport to the nearest central office where space is available. At MCIm's option, Bell Atlantic shall provide hand-off by coaxial cable, fiber, copper, wireless, or any other Technically Feasible method.

3.2.6 If space is denied, Bell Atlantic shall, at MCIm's option, provide extended loop service, terminating and concentrating the traffic, and handing it off to

MCIm on digital or lightwave transmission facilities, using Bellcore General Requirements 303 (GR303) capability to connect the Loops. MCIm may use any equipment it deems necessary, as set forth in Section [7] of this Attachment V.

3.2.7 Subject to availability, physically-located interconnection will be provided on a first-come, first-served basis in a physically-located office until available Collocation Space and facilities are exhausted. In such instances where two (2) or more requests for space are received at the same time for a Central Office building with limited space, BA shall administer a lottery to determine the order of selection of applicants.

3.2.8 In the event that MCIm withdraws its request for Collocation service prior to completion, Bell Atlantic will refund any pre-paid funds, including, the pre-paid design and planning fee.

3.3 Bell Atlantic shall provide power cabling connectivity information, including the sizes and number of power feeders, to MCIm upon completion of Bell Atlantic construction of MCIm Collocation space.

3.4 Bell Atlantic shall take collocator demand into account when renovating existing facilities and constructing or leasing new facilities.

Section 4. Adjacent Collocation

4.1 MCIm may collocate its equipment in an adjacent controlled environmental vault or similar structure to the extent Technically Feasible. Bell Atlantic shall provide power and physical collocation services and facilities subject to the same requirements as applicable to other physical collocation arrangements pursuant to the provisions of this Attachment V.

4.2 MCIm will comply with the Level 1 safety requirements of the Bellcore Network Equipment and Building Specifications (NEBS) (or more stringent safety requirements only if Bell Atlantic imposes those on its own equipment). MCIm may place its own equipment, including, but not limited to, copper cables, coaxial cables, fiber cables, and telecommunications equipment, in adjacent facilities constructed by either Bell Atlantic or MCIm.

Section 5. Shared/Common Caged Collocation

5.1 MCIm may collocate its equipment by sharing a caged or otherwise enclosed collocation space with one or more other collocating LECs (including MCIm Affiliates) pursuant to arrangements between MCIm and those other LECs, including, at MCIm's option, sublease agreements. Bell Atlantic shall make collocation space available in single bay increments or their equivalent.

5.2 Even if MCIm is not the first collocator in the space, MCIm may order Network Elements and provision service from the shared space.

Section 6. Cageless Collocation

6.1 MCIm may collocate its equipment in any unused space in Bell Atlantic's premises without requiring the construction of a room, cage, or similar structure or enclosure, and without requiring the creation of a separate entrance to MCIm's collocation space. Bell Atlantic may require MCIm employees or agents to use a central entrance. Bell Atlantic shall not require MCIm to collocate on a separate floor, or to collocate in a room or isolated space separate from Bell Atlantic's own equipment, or to comply with any other unreasonable segregation requirements. Bell Atlantic will allow MCIm direct access to MCIm's equipment 24 hours per day, seven days per week.

6.2 MCIm may connect its equipment directly to Bell Atlantic's network if Technically Feasible. Bell Atlantic may cage its own equipment.

6.3 Bell Atlantic will impose no unreasonable minimum space requirements for cageless collocation. MCIm may use and pay for as little space as that needed to house a single rack or bay of equipment.

6.4 If cageless collocation space is 50 square feet or larger, MCIm may, at its option, construct a cage or other enclosure.

6.5 Bell Atlantic shall not require MCIm to use an intermediate interconnection arrangement in lieu of direct connection to Bell Atlantic's network or network elements, if Technically Feasible.

Section 7. Virtual Collocation

7.1 Virtual collocation means MCIm may designate transmission equipment dedicated to MCIm's use, and may monitor and control MCIm circuits terminating at Bell Atlantic's premises. Bell Atlantic must install, maintain and repair such equipment, and must do so under the same intervals and with the same or better failure rates for performance of similar functions for comparable Bell Atlantic equipment. Maintenance includes the change out of electronic cards provided by MCIm.

7.2 MCIm may, at its option, lease or sell equipment to Bell Atlantic in order to obtain virtual collocation. MCIm may purchase the equipment from third parties, and will not be required to purchase the equipment from Bell Atlantic. In the event collocation is converted from virtual to physical, and ILEC owns the equipment, MCIm may purchase the equipment from Bell Atlantic.

7.3 If virtual collocation is outside the central office, Bell Atlantic will provide unbundled transport, and sub-loops or other access to copper distribution.

7.4 Bell Atlantic will provide, as part of virtual collocation, digital cross connects to allow loops and ports to be combined.

Section 8. License

Bell Atlantic hereby grants MCIm a license to occupy any premises or rack space which contain collocated equipment as permitted hereunder, including without limit under this Agreement, including, but not limited to, all necessary ingress and egress and reasonable use of Bell Atlantic's property, all in accordance with the terms and conditions of this Agreement including this Attachment V.

Section 9. Technical References

Bell Atlantic shall provide collocation in accordance with the following standards:

9.1 Institute of Electrical and Electronics Engineers (IEEE) Standard 383, IEEE Standard for Type Test of Class 1 E Electric Cables, Field Splices, and Connections for Nuclear Power Generating Stations.

9.2 National Electrical Code (NEC) latest issue.

9.3 TA-NPL-000286, NEBS Generic Engineering Requirements for System Assembly and Cable Distribution, Issue 2 (Bellcore, January 1989).

9.4 TR-EOP-000063 Network Equipment-Building System (NEBS) Generic Equipment Requirements, Issue 3 (March 1988).

9.5 TR-EOP-000151, Generic Requirements for 24-, 48-, 130-, and 140- Volt Central Office Power Plant Rectifiers, Issue 1 (Bellcore, May 1985).

9.6 TR-EOP-000232, Generic Requirements for Lead-Acid Storage Batteries, Issue 1 (Bellcore, June 1985).

9.7 TR-NWT-000154, Generic Requirements for 24-, 48-, 130, and 140- Volt Central Office Power Plant Control and Distribution Equipment, Issue 2 (Bellcore, January 1992).

9.8 TR-NWT-000295, Isolated Ground Planes: Definition and Application to Telephone Central Offices, Issue 2 (Bellcore, July 1992).

9.9 TR-NWT-000840, Supplier Support Generic Requirements (SSGR), (A Module of LSSGR, FR-NWT-000064), Issue 1 (Bellcore, December 1991).

9.10 TR-NWT-001275 Central Office Environment Installations Removal Generic Requirements, Issue 1 (January 1993).

9.11 Underwriters' Laboratories Standard, UL 94.

EXHIBIT A**VIRTUAL COLLOCATION APPLICATION**

DATE SENT ____/____/____ VERSION _____

I CUSTOMER INFORMATION

1. Company Name _____
 Street _____
 City/Town/State/Zip _____
2. 24 Hour Emergency Contact Number _____
3. Contact Name _____
 Telephone Number _____ Facsimile Number _____
4. Desired Service Date ____/____/____
5. Activity: New ____ Augment ____ Other ____
6. Percent Interstate Usage (PIU) _____
7. Central Office CLLI Code _____
8. ACNA _____

II TYPE OF SERVICE

Initial Terminations Required: DS3 _____ DS1 _____ DS0 _____

Incremental Quantities of Desired Services:

Interface (Cross-Connect) Forecast:

	Year 1	Year 2	Year 3
DS3	_____	_____	_____
DS1	_____	_____	_____
DS0	_____	_____	_____

Service (Channel Termination) Forecast:

	Year 1	Year 2	Year 3
DS3	_____	_____	_____
DS1	_____	_____	_____
DS0	_____	_____	_____

Ex: Interface - 2 DS3s; Service - 25 DS1s, 420 DS0s with muxing provided by Bell Atlantic

Is Synchronization To Be Provided By Access Provider?

Yes

☐

No

☐

Official Use Only:

Date Received: _____

D/P Received: _____



VIRTUAL COLLOCATION APPLICATION

III EQUIPMENT REQUIREMENTS

1. **List of Access Customer's Designated Equipment**

(NOTE: Please specify the type, size and quantity of equipment to be installed so that adequate power and environmental safeguards can be provided. Also, please attach a copy of the product's Technical Description.)

<u>Manufacturer/Model #</u>	<u>Size</u>	<u>Quantity</u>	<u>CLEI*</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Will Bell Atlantic be Designated to Install the Equipment? Yes ☐ No ☐

If no, Provide Bell Atlantic Approved Vendor Name _____
Vendor Contact Number _____

(*) Bellcore common Language Equipment Identification TM Common Language is a Registered trademark and CLEI, CLLI, CLFI and CLCI are trademarks of Bell Communications Research, Inc. (Bellcore)

2. **List of Required Plug-in Units**

(NOTE: Please indicate the circuit number or slot where the plug-in unit is to be installed, as required by the Access Provider's practices.)

<u>Manufacturer/Model #</u>	<u>Slot/Circuit #</u>	<u>Quantity</u> <u>In Service/Protection</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



VIRTUAL COLLOCATION APPLICATION

4. List of Required Test/Maintenance Spare Equipment

Manufacturer/Model #	Qty	CLEI
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Heat Dissipation Requirements: _____ (WATTS)

IV OUTSIDE PLANT FIELD SURVEY

1. Cable Information

A. Direction from where cable will originate:

B. Have Licensing Agreements for this location been established (e.g., conduit)? Yes ☐ No ☐ (Note: If Yes, please provide Contract Number.)

C. Contract Number _____

D. Dual Building Entrance Requested Yes ☐ No ☐

E. Dual Riser Cables Requested Yes ☐ No ☐

2. Cable Requirements

Feeder

Riser

A. Number of Cables To Be Placed	_____	_____
B. Size of Cables (Diameter)	_____	_____
C. Number of Fibers per Cable	_____	_____



VIRTUAL COLLOCATION APPLICATION

IV OUTSIDE PLANT FIELD SURVEY (Cont'd)

3. Cable Makeup

- A. Cable Designation and Count _____
- B. Name of Fiber Manufacturer _____
- C. Name of Cable Manufacturer _____
- D. Type of Single Mode Fiber Used (e.g., Dual Window, Dispersion Shifted)

- E. Loss Decibels Per Kilometer _____

V **REMARKS** (New Customers, please provide bill to information here)

[illegible]

EXHIBIT B

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PHYSICAL COLLOCATION APPLICATION

DATE SENT / / VERSION

I CUSTOMER INFORMATION

Issue 1: 7/22/96

1. Company Name _____
Street _____
City/Town/State/Zip _____
2. 24 Hour Emergency Contact Number _____
3. Contact Name _____
Telephone Number _____ Facsimile Number _____
4. Desired Service Date ____ / ____ / ____
5. Activity: New ____ Augment ____ Other ____
6. Percent Interstate Usage (PIU) _____
7. Central Office CLLI Code _____
8. ACNA _____

II TYPE OF SERVICE

Initial Terminations Required: DS3 _____ DS1 _____ DS0 _____

Incremental Quantities of Desired Services:

Interface (Cross-Connect) Forecast			Service (Channel Termination) Forecast		
Year 1	Year 2	Year 3	Year 1	Year 2	Year 3
DS3 _____ (Point to point)	_____	_____	DS3 _____	_____	_____
DS3 _____ (Multiplexed)	_____	_____	DS1 _____	_____	_____
DS1 _____	_____	_____	DS1 _____	_____	_____
DS0 _____ (Unbundled Loops)	_____	_____			

(Unbundled Loops)

Ex: Interface Year 1: 3 DS3s Point to Point, 3 DS3s Muxed, 672 Unbund DS0s

Service Year 1: 3 DS3s, 84 DS1s (Muxed DS3s)

Official Use Only:

Date Received: _____

D/P Received: _____

ⓐ Bell Atlantic

PHYSICAL COLLOCATION APPLICATION

III FLOOR SPACE REQUIREMENTS

1. Number of equipment frames to be installed _____
2. Amount of space required _____
(Square foot increments are based on tariff)
3. Attach preferred floor plan layout for space (footprint)
4. Are there other environmental, enclosure or security requirements? Yes ___ No ___
(If yes, additional charges may apply. Please attach details of additional requirements.)

IV. TECHNICAL EQUIPMENT SPECIFICATIONS

1. DC Power Requirements
 - A. -48v Battery and Ground, A & B supplies number of (A & B) feeds _____
 - B. Number of AMPs required per A & B feed (maximum 60 amp) _____
2. Special AC Power Requirements ? Yes ___ No ___
(If yes, additional charges may apply. Please attach details if required.)
3. Heat Dissipation Requirements _____ (WATTS)
4. List of Access Customer's Installed Equipment
(Please specify type, size and quantity so that adequate power and environmental safeguards can be provided. Also, please attach a copy of the product's technical description.)

Manufacturer/Model #	Physical Dimensions	Qty
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____

Total anticipated equipment load _____ (AMPS)



PHYSICAL COLLOCATION APPLICATION

V OUTSIDE PLANT FIELD SURVEY

1. Cable Information

- A. Direction from where cable will originate

- B. Have Licensing Agreements for this location been established (e.g., conduit)?
 Yes _____ No _____ (If Yes, please provide Contract Number)

- C. Contract Number _____

- D. Dual Building Entrance Requested Yes _____ No _____

- E. Dual Riser Cables Requested Yes _____ No _____

2. Cable Requirements

Feeder

Riser

- A. Number of Cables To Be Placed

- B. Size of Cables (Diameter)

- C. Number of Fibers per Cable

3. Cable Makeup

- A. Cable Designation and Count _____

- B. Name of Fiber Manufacturer _____

- C. Name of Cable Manufacturer _____

- D. Type of Single Mode Fiber Used (e.g., Dual Window, Dispersion Shifted)

- E. Loss Decibels per Kilometer _____

**PHYSICAL COLLOCATION APPLICATION****VI ACCESS CUSTOMER'S VENDOR SELECTION**

1. **Engineering Vendor** _____
Address _____
Telephone Number _____
2. **Outside Plant Vendor** _____
(For cable placement)
Address _____
Telephone Number _____
3. **Outside Plant Vendor** _____
(For cable splicing)
Address _____
Telephone Number _____
4. **Installation Vendor** _____
(For customer's equipment)
Address _____
Telephone Number _____
5. **Installation Vendor** _____
(For riser cable)
Address _____
Telephone Number _____

VII CERTIFICATE OF INSURANCE

Certificate of Insurance must accompany all applications for new sites

If this is a new site, please indicate that the certificate is included. Yes ____ No ____



PHYSICAL COLLOCATION APPLICATION

VIII REMARKS (New Customers, please provide bill to information here)

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